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8	BRS	S475	1836	705/8.ccls.
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2	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	2006/08/07 14:45		
3	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	2006/08/07 14:46		
4	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	2006/08/07 14:47		
5	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	2006/08/11 11:52		
6	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	2006/08/11 11:53		
7	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	2006/08/11 11:54		
8	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	2006/08/11 12:06		
9	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	2006/08/11 13:29		

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2	BRS	L2	0	7035/22.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	2006/08/11 13:43
3	BRS	L3	786	703/22.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	2006/08/11 14:07
4	BRS	L4	3	cash-charles.in.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	2006/08/11 14:07
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8	BRS	S475	1836	705/8.ccls.
9	BRS	S476	962	705/9.ccls.

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6	BRS	L6	202	poynter.in.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	2006/08/11 14:08

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1　Industrial session: new data types and algorithms: Temporal management of RFID data　🗖

Fusheng Wang, Peiya Liu

August 2005 **Proceedings of the 31st international conference on Very large data bases VLDB '05**

Publisher: VLDB Endowment

Full text available: 🗋 pdf(1.08 MB)　　Additional Information: full citation, abstract, references, index terms

> RFID technology can be used to significantly improve the efficiency of business processes by providing the capability of automatic identification and data capture. This technology poses many new challenges on current data management systems. RFID data are time-dependent, dynamically changing, in large volumes, and carry implicit semantics. RFID data management systems need to effectively support such large scale temporal data created by RFID applications. These systems need to have an explicit t ...

2　Psychological differences in university computer student populations　🗖

◈　Judith D. Wilson, Gerald F. Braun

March 1985 **ACM SIGCSE Bulletin , Proceedings of the sixteenth SIGCSE technical symposium on Computer science education SIGCSE '85**, Volume 17 Issue 1

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81 Papers from MC²R open call: MANET simulation studies: the incredibles
Stuart Kurkowski, Tracy Camp, Michael Colagrosso
October 2005 **ACM SIGMOBILE Mobile Computing and Communications Review**, Volume 9 Issue 4
Publisher: ACM Press
Full text available: ▦ pdf(967.33 KB)   Additional Information: full citation, abstract, references, index terms

> Simulation is the research tool of choice for a majority of the mobile ad hoc network (MANET) community. However, while the use of simulation has increased, the credibility of the simulation results has decreased. To determine the state of MANET simulation studies, we surveyed the 2000-2005 proceedings of the ACM International Symposium on Mobile Ad Hoc Networking and Computing (MobiHoc). From our survey, we found significant shortfalls. We present the results of our survey in this paper. We the ...

82 Molecular simulation of rheological properties using massively parallel supercomputers
R. K. Bhupathiraju, S. T. Cui, S. Gupta, H. D. Cochran, P. T. Cummings
November 1996 **Proceedings of the 1996 ACM/IEEE conference on Supercomputing (CDROM) Supercomputing '96**
Publisher: IEEE Computer Society
Full text available: ▦ pdf(120.44 KB)   Additional Information: full citation, abstract, references, index terms

> Advances in parallel supercomputing now make possible molecular-based engineering and science calculations that will soon revolutionize many technologies, such as those involving polymers and those involving aqueous electrolytes. We have developed a suite of message-passing codes for classical molecular simulation of such complex fluids and amorphous materials and have completed a number of demonstration calculations of problems of scientific and technological importance with each (describe ...
>
> **Keywords:** Molecular dynamics, domain decomposition, molecular simulation, nonequilibrium, rheology

83 Lightweight computational steering of very large scale molecular dynamics simulations
David M. Beazley, Peter S. Lomdahl
November 1996 **Proceedings of the 1996 ACM/IEEE conference on Supercomputing (CDROM) Supercomputing '96**

Publisher: IEEE Computer Society

Full text available: pdf(177.21 KB)   Additional Information: full citation, abstract, references, citings, index terms

We present a computational steering approach for controlling, analyzing, and visualizing very large scale molecular dynamics simulations involving tens to hundreds of millions of atoms. Our approach relies on extensible scripting languages and an easy to use tool for building extensions and modules. The system is extremely easy to modify, works with existing C code, is memory efficient, and can be used from inexpensive workstations and networks. We demonstrate how we have used this system t ...

Keywords: Molecular dynamics, data analysis, large-scale simulation, steering, scripting languages,visualization, parallel computing, SPaSM, SWIG

84 Real-time hierarchically distributed processing network interaction simulation
Wayne F. Zimmerman, Chung-I Wu
January 1988 **Proceedings of the 21st annual symposium on Simulation ANSS '88**
Publisher: IEEE Computer Society Press
Full text available: pdf(1.26 MB)   Additional Information: full citation, abstract, references, index terms

The Telerobot Testbed is a hierarchically distributed processing system which is linked together through a standard, commercial Ethernet. Standard Ethernet systems are primarily designed to manage non-real-time information transfer. Therefore, collisions on the net (i.e., two or more sources attempting to send data at the same time) are managed by randomly rescheduling one of the sources to retransmit at a later time interval. Although acceptable for transmitting noncritical data such as ma ...

85 Using distributed simulation for distributed application development
Max Muhlhauser
January 1988 **Proceedings of the 21st annual symposium on Simulation ANSS '88**
Publisher: IEEE Computer Society Press
Full text available: pdf(1.31 MB)   Additional Information: full citation, abstract, references, citings, index terms

The software engineering environment DESIGN integrates several approaches for the development of distributed applications. The distributed programming language DC provides for language support. A workstation based human interface integrates programming tools such as a language sensitive editor, a distributed debugger, data evaluation tools, etc. This paper concentrates on a further approach of DESIGN: performance evaluation and prototyping on the basis of distributed simulation

86 Application of simulation for order sequencing in flow-shop production systems
Rolf Schmidt
January 1988 **Proceedings of the 21st annual symposium on Simulation ANSS '88**
Publisher: IEEE Computer Society Press
Full text available: pdf(1.06 MB)   Additional Information: full citation, abstract, references, index terms

In many cases the functionality and performance of flow-shop production systems depends heavily on the selection of a suitable sequence of orders. The main objectives of order sequencing in production systems are minimization of set-up times, continuous and optimal use of capacities, reliability of delivery, minimization of stock and throughput time as well as avoidance of undue system states. The complexity of the task of order sequencing usually requires the employment of heuri ...

87 System-level simulation of a next generation, multi-sensor concurrent signal processor
James F. Engler

January 1988 **Proceedings of the 21st annual symposium on Simulation ANSS '88**
Publisher: IEEE Computer Society Press
Full text available: 📄 pdf(967.75 KB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>index terms</u>

A new generation of processors is now emerging which addresses the modular processing requirements for a wide range of multispectrum applications envisioned for the late-20th/early-21st century. Due to the complexity of interaction among software modules and hardware devices simulation techniques are required to verify that specific configurations support application requirements. This paper demonstrates how simulation results can provide useful information for validation objectives. For th ...

88 <u>Ada simulation technology - methods and metrics</u>
John E. Melde, Philip G. Gage
January 1988 **Proceedings of the 21st annual symposium on Simulation ANSS '88**
Publisher: IEEE Computer Society Press
Full text available: 📄 pdf(1.53 MB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>index terms</u>

This paper describes the impact of the Ada programming language on the development and use of simulation models. Based upon the development in Ada of a discrete-event simulation package (A*SIM), Ada is shown to provide numerous language features and methodologies that are ideally suited for modeling and simulation. Productivity and performance metrics collected during development and extensive use of A*SIM are also presented to provide quantitative comparisons of Ada-based modeling and simu ...

89 <u>A proposed college curriculum in simulation</u>
Bevlee A. Watford, D. L. Kimbler
January 1988 **Proceedings of the 21st annual symposium on Simulation ANSS '88**
Publisher: IEEE Computer Society Press
Full text available: 📄 pdf(587.03 KB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>index terms</u>

The status of simulation education at Clemson University is investigated with respect to the current requirements of industry use of simulation as an analytical tool. A sequence of courses addressing all phases of the simulation analysis and modeling procedure is described. A taxonomy of simulation topics by area and curriculum level is provided. A survey of industry simulation analysts is utilized to assist in specifying the proposed educational requirements to ensure that Clemson industri ...

90 <u>A distributed database simulation language</u>
Harvey H. Rubinovitz, Fred J. Maryanski
March 1989 **Proceedings of the 22nd annual symposium on Simulation ANSS '89**
Publisher: IEEE Computer Society Press
Full text available: 📄 pdf(650.49 KB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>index terms</u>

This paper presents a software modeling environment for estimating the performance of distributed database systems. This tool supports a simulation language, HGPSS, which comprises various simulation primitives, contains a collection of network modules, and allows for the collection of statistics. This provides an overview of the HGPSS environment emphasizing its applicability to the modeling of distributed databases.

91 <u>Query driven simulation using SIMODULA</u>
Johna A. Miller, Orville R. Weyrich
March 1989 **Proceedings of the 22nd annual symposium on Simulation ANSS '89**
Publisher: IEEE Computer Society Press
Full text available: 📄 pdf(1.29 MB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index terms</u>

This paper describes the design and early implementation phases of a simulation modeling environment that integrates a process-oriented simulation language and a database system with object-oriented extensions. User may interact with the system simply by formulating SQL-like queries to retrieve information stored from previous simulations, or indeed cause information to be automatically generated.

92 An algorithm for parallel discrete event simulation using common memory
Bruce A. Cota, Robert G. Sargent
March 1989 **Proceedings of the 22nd annual symposium on Simulation ANSS '89**
Publisher: IEEE Computer Society Press

Full text available: pdf(980.29 KB)   Additional Information: full citation, abstract, references, citings, index terms

Most work on parallel discrete event simulation has been based on a distributed model of computation in which processes can only communicate through message passing. Here we study parallel discrete event simulation under a common memory model of computation. An algorithm for parallel discrete event simulation is developed based on the assumption that every process has direct access to the state of any other process. The objective is to avoid the high overhead associated with null messages a ...

93 Efficient distributed simulation
Vijay Madisetti, Jean Walrand, David Messerschmitt
March 1989 **Proceedings of the 22nd annual symposium on Simulation ANSS '89**
Publisher: IEEE Computer Society Press

Full text available: pdf(1.46 MB)   Additional Information: full citation, abstract, references, citings, index terms

Discrete-event systems are used to model a number of engineering applications ranging from performance analysis of large scale communication networks, computer-aided-design (CAD) of circuits to simulation of manufacturing systems. Except for a small set, these systems are analytically intractable and in addition prohibitive to evaluate numerically. Simulation of such complex systems is exceedingly slow to run (and also to develop). Therefore, the development of simulation speedup methods is ...

94 Asynchronous control of discrete event simulation
Jay B. Ghosh
March 1985 **Proceedings of the 18th annual symposium on Simulation ANSS '85**
Publisher: IEEE Computer Society Press
Full text available: pdf(625.56 KB)   Additional Information: full citation, abstract, references, index terms

Traditionally, discrete-event simulations have been controlled in a synchronous manner. The synchronization is achieved through a data-structure, normally referred to as an events-list. Manipulations on this list can often be very expensive and can thus detract from the attractiveness of simulation as a problem-solving tool. An alternative to this situation is asynchronous simulation which has found considerable exposure in the literature of distributed simulation. Asynchronous simulations ...

95 Simulation of a distributed database system incorporating a routing optimizer
Roy M. Wnek, Paul F. Roth
March 1985 **Proceedings of the 18th annual symposium on Simulation ANSS '85**
Publisher: IEEE Computer Society Press
Full text available: pdf(1.40 MB)   Additional Information: full citation, abstract, references, index terms

The Distributed System Simulator (DSS) is a computer simulation of a database system distributed across a computer network. The system incorporates an "Optimizer" program which develops an optimal routing strategy for incoming transactions. The DSS accepts

test transactions and alternative processing strategies from the Optimizer, and simulates these in the context of network traffic to determine processing times which are fed back to the Optimizer for evaluation. This DSS model ...

96 Interactive PERT simulation modeling for resource-constrained project scheduling
James Gantt
March 1985 **Proceedings of the 18th annual symposium on Simulation ANSS '85**
Publisher: IEEE Computer Society Press

Full text available: pdf(757.43 KB)   Additional Information: full citation, abstract, references, citings, index terms

Several modeling extensions recently incorporated in an interactive project scheduling system (GITPASE, Graphical Interactive Technique for Project Analysis, Scheduling and Evaluation) provide a basis for corresponding extensions in interactive PERT simulation. We have developed and are experimenting with an interactive PERT simulator using the GITPASE infrastructure. It allows correlated variation of resource consumptions, resource availability levels, timing changes in availabilities, and ...

97 Parallel discrete event simulation: a case study
Daniel A. Reed
March 1985 **Proceedings of the 18th annual symposium on Simulation ANSS '85**
Publisher: IEEE Computer Society Press

Full text available: pdf(816.81 KB)   Additional Information: full citation, abstract, references, citings, index terms

Although evaluating a detailed discrete event simulation model of a large scale system can be computationally taxing, parallel simulation provides hope of reducing computation time to tractable levels. We present three performance studies based on a prototype implementation of one parallel simulation algorithm. The first examines the implementation's efficiency, the kind and amount of overhead for simulated events. The second study presents the results of an attempted vectorization of the p ...

98 Performance evaluation of the discrete event simulation computer DESC
Meir Barel
March 1985 **Proceedings of the 18th annual symposium on Simulation ANSS '85**
Publisher: IEEE Computer Society Press
Full text available: pdf(675.96 KB)   Additional Information: full citation, abstract, references, index terms

The Discrete Event Simulation Computer (DESC) reported here improves simulation performance through an exploitation of parallelism inherent in simulation, with regard to list processing, random number generation, statistical analysis and program control. We have chosen SIMULA as the frame language concept. For performance evaluation a 9 stage queueing network model has been used as benchmark model. During the run time of the simulation program of this model the performance of the DESC was m ...

99 Annotated bibliography of the proceedings of the annual simulation symposium (1968-1991)
Ross A. Gagliano, Martin D. Fraser
April 1992 **Proceedings of the 25th annual symposium on Simulation ANSS '92**
Publisher: IEEE Computer Society Press
Full text available: pdf(1.45 MB)   Additional Information: full citation, references, index terms

100 Using split event sets to form and schedule event combinations in discrete event simulation

N. Manjikian, W. M. Loucks
April 1992 **Proceedings of the 25th annual symposium on Simulation ANSS '92**
Publisher: IEEE Computer Society Press
Full text available: pdf(858.94 KB)   Additional Information: full citation, references, citings, index terms

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3	BRS	L13	199	((check adj out) same operations)	US-PGPUB	2006/08/11 14:57
4	BRS	L14	1	((check adj out) same operations) same simulat$3	US-PGPUB	2006/08/11 14:58
5	BRS	L15	1	((check adj out) same arrival same limited)	US-PGPUB	2006/08/11 14:58
6	BRS	L16	34	((check adj out) same simulat$3)	US-PGPUB	2006/08/11 14:58
7	BRS	L17	2	((check adj out) same simulat$3) and (retail same simulat$3)	US-PGPUB	2006/08/11 15:00
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